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5.7		Application Number		10/706,586		
TRANSMITTAL	•	Filing Date		11/12/2003		
TRANSMITTAL FORM		First Named Inventor		John Brian P	endry	
		Art Unit		2821		
		Examiner Name				
(to be used for all correspondence after in		Attorney Docket Num	ber	8068		
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Firm Reinhart Boerner Van Deuren s.c.						
Signature	Muler	<u>,                                     </u>	. <u> </u>			
Printed Name Leslie S. Mil		iller				
Date December 2			Reg. No. 30,662			
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Typed or printed name Leslie	S. Miller			Date	December 27, 2004	

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#### PATENT APPLICATION

Reinha	art Boerner Van Deuren s.c.	
By L	eslie S. Miller	
Date:	December 27, 2004	

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

**GROUP ART UNIT: 2821** 

**EXAMINER: UNKNOWN** 

In re application of: John Brian Pendry	)	
Application No: 10/706,586	)	
Filed: 11/12/2003	)	For: NARROW BEAM ANTENNAE
Confirmation No.: 6680	)	
Attorney Docket No. 8068	)	
Customer No. 22922	)	

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450 December 27, 2004

# TRANSMITTAL OF INFORMATION DISCLOSURE STATEMENT WITHIN THREE MONTHS OF FILING OR BEFORE MAILING OF FIRST OFFICE ACTION (37 CFR 1.97(b))

NOTE: "An information disclosure statement shall be considered by the Office if filed: (1) within three months of the filing date of a national application; (2) within three months of the date of entry of the national stage as set forth in § 1.491 in an international application; or (3) before the mailing date of a first Office action on the merits, whichever event occurs last." 37 CFR 1.97(b).

NOTE: The "filing date of a national application" under 37 CFR 1.97(b) has two possible meanings. Where the filing is a direct one to the United States Patent & Trademark Office, the filing is defined in 37 CFR 1.53(b) as "the date on which: (1) A specification containing a description pursuant to § 1.71 and at least one claim pursuant to § 1.75; and (2) any drawing required by § 1.81(a), are filed in the Patent and Trademark Office in the name of the actual inventor or inventors as required by § 1.41."

37 CFR 1.97(b)(1). On the other hand, an international application that enters the national stage occurs when the applicant has filed the documents and fees required by 35 U.S.C. § 371(c) within the periods set forth in § 1.494 or § 1.495. 35 U.S.C. § 371(c) requires the fitting of the following: (1) the national fee; (2) a copy of the international application, unless already sent by the International Bureau, and an English translation if filed in another language; (3) amendments under PCT Article 19, with a translation into English if made in another language; (4) an oath or declaration; and (5) a translation into English of any annexes to the International preliminary examination report, if such annexes were made in another language. 37 CFR 1.97(b)(2).

# IDENTIFICATION OF TIME OF FILING THE ACCOMPANYING INFORMATION DISCLOSURE STATEMENT

The information disclosure statement submitted herewith is being filed within three months of the filing date of the application or date of entry into the national stage of an international application or before the mailing date of a first Office action on the merits, whichever event occurs last. 37 CFR 1.97(b).

- NOTE: "No certification or fee is due when the filing is made within the above time period. It is advisable to ensure that no Office action has been mailed if the disclosure statement is delayed until after three months from filing.
- NOTE: "An information disclosure statement will be considered to have been filed on the day it was received in the Office, or on an earlier date of a mailing if accompanied by a properly executed certificate of mailing under 37 CFR 1.8, or Express Mail certificate under 37 CFR 1.10. An Office action is mailed on the date indicated in the Office action." Notice of April 20, 1992 (1138 O.G. 37-41, 39).
- NOTE: "The term 'national application' includes continuing applications (continuations, divisions, continuations-inpart) so three months will be measured from the actual filing date of an application as opposed [sic] to the effective date of a continuing application." Notice of April 20, 1992 (1138 O.G. 37-41, 39).
- NOTE: "An action on the merits means an action which treats the patentability of the claims in an application, as opposed to only formal or procedural requirements. An action on the merits would, for example, contain a rejection or indication of allowability of a claim or claims rather than just a restriction requirement (37 CFR 1.142) or just a requirement for additional fees to have a claim considered (37 CFR 1.16(d)). Thus, if an application was filed on Jan. 1 and the first Office action on the merits was not mailed until six months later on July 1, the examiner would be required to consider any proper information disclosure statement filed prior to July 1." Notice of April 20, 1992 (1138 O.G. 37-41, 39).

WARNING: "A petition for suspension of action to allow applicant time to submit an information disclosure statement will be denied as failing to present good and sufficient reasons, since 37 CFR 1.97 provides adequate recourse for the timely submission of prior art for consideration by the examiner." Notice of July 6, 1992 (1141 O.G. 63).

Dated: December 27, 2004

Reg. No. 30,662

Tel. No.: (414) 298-8321

SIGNATURE OF ATTORNEY

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Milwaukee, WI 53202

**CUSTOMER NO. 22922** 

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### **INFORMATION DISCLOSURE** STATEMENT BY APPLICANT

(Use as many sheets as necessary)

of 1 1 Sheet

	Complete if Known			
Application Number	10/706,586			
Filing Date	11/12/2003			
First Named Inventor	John Brian Pendry			
Art Unit	2821			
Examiner Name				
Attorney Docket Number	8068			

		NON PATENT LITERATURE DOCUMENTS	
Examiner	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T²
		Bessel Functions – Orders 3-9, Bessel Functions of Integer Order, Compiled from British Association for the Advancement of Science, Bessel functions, Part II. Functions of positive integer order, Mathematical Tables, vol. X (Cambridge Univ. Press, Cambridge, England, 1952) and Mathematical Tables Project, Table of $fn(s)=n!(1/2X)-^nJ_n(x)$ . J. Math. Phys. 23, 45-60 (1944) (with permission).	
		WOODWARD, P.M., and LAWSON, J.D., "The Theoretical Precision with Which an Arbitrary Radiation-Pattern may be Obtained from a Source of Finite Size." Journal I.E.E., Vol. 95, Part III, No. 37, September 1948.	
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		PENDRY, J.B., and RAMAKRISHNA, S.A., "Focusing Light Using Negative Refraction." J. Phys. Condens. Matter 15 (2003), pp. 6345-6364.	

Examiner	Date		
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Signature	00110	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	

<sup>\*</sup>EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance

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